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(19) **United States**(12) **Patent Application Publication**
Gossain(10) **Pub. No.: US 2021/0103324 A1**(43) **Pub. Date: Apr. 8, 2021**(54) **NETWORK IDENTIFICATION OF
PORTABLE ELECTRONIC DEVICES WHILE
CHANGING POWER STATES****H04N 21/436** (2006.01)**H04N 21/472** (2006.01)(52) **U.S. Cl.**CPC **G06F 1/3206** (2013.01); **G06F 3/048**
(2013.01); **H04N 21/47217** (2013.01); **H04N**
21/43615 (2013.01); **H04L 65/60** (2013.01)(71) Applicant: **Sonos, Inc.**, Santa Barbara, CA (US)(72) Inventor: **Hrishikesh Gossain**, Santa Barbara, CA
(US)(73) Assignee: **Sonos, Inc.**, Santa Barbara, CA (US)(21) Appl. No.: **17/122,829**(22) Filed: **Dec. 15, 2020****Related U.S. Application Data**(63) Continuation of application No. 16/147,258, filed on
Sep. 28, 2018, now Pat. No. 10,871,815.**Publication Classification**(51) **Int. Cl.****G06F 1/3206** (2006.01)**G06F 3/048** (2006.01)**H04L 29/06** (2006.01)(57) **ABSTRACT**

Systems and methods for maintaining knowledge of a network address (e.g., a MAC address) for a playback device while changing power states are disclosed. In one embodiment, a method for maintaining knowledge of the network identity of a playback device while changing power states includes determining that a playback device is entering a sleep state, sending state information from the playback device to a central data repository over a network responsive to the determination that the playback device is entering sleep state, where state information includes a MAC address, receiving the state information about the playback device at a waking device from the central data repository, waking the playback device periodically at predetermined time intervals while in sleep state to listen for messages addressed to the MAC address, and receiving a wake-up message at the playback device from the waking device and responding by changing from sleep to active state.

